

MATFEM Partnership Dr Gese & Oberhofer

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

MATFEM offers consulting in the areas of FEM (FEMservices division) and material characterisation for FEM (ComonLab division). MATFEM also offers material models for coupling to commercial FEM programmes. The main product is the modular material model MF GenYld+CrachFEM. This material model can be used to describe metals, plastics and composites in misuse and crash simulation.

Our material model MF GenYld+CrachFEM allows the modelling of all essential materials for lightweight construction in automotive engineering (light metals as sheet metal, extrusion profiles and castings; high-strength steels; unreinforced and short-fibre reinforced plastics, organic sheets, composites). We have experience with aerospace materials. We have test programmes for all these materials as a basis for the creation of FEM material cards.

Pettenkoferstrasse 29
80336 München
Bavaria
Germany
www.matfem.de

Main areas covered

material testing, material models, CAE simulation

Infrastructure

server for CAE simulation, partner labs for material testing

Certifications

Internal QA processes

Keywords

finite element analysis, material testing, Material modelling

Memberships



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

€2m - €10m

Funding

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
<i>Services & consulting</i>			
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis	✓	✓	
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes, Structural mechanics, Materials	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

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Contacts

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